

Application Serial No. 10/627,070
Amendment A
Reply to Office Action of March 10, 2005

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the above-identified application:

Listing of Claims:

1. (Original) An automated data storage library, comprising:
a frame having a plurality of data storage drives mounted thereto
a robotic picker for accessing different ones of the data storage drives via data tape cartridges;
a single control station associated with and mounted to the frame for controlling all of the data storage drives in the frame from a single position; the single control station further comprising:
a single display device for touch-screen, operational control of all functions of all of the data storage drives for centralizing management of all of the data storage drives; and
a switching unit connected to the single display device for manipulating selection of the data storage drives via microcode.
2. (Currently Amended) The automated data storage library of claim 1, wherein the functions of the data storage drives controlled by the single control station comprise at least one of:
loading and unloading data tape cartridges,
resetting the data storage drives,
setting error code match dumps,
looking at data storage drive history for loads and power-on time,
setting library control features,
microcode enhancements,
retrieval of microcode dumps,
accessing all vital product data, and
monitoring potential problems with the data storage drives.

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3. (Original) The automated data storage library of claim 1, wherein the data storage drives determine potential operational problems prior to actual failure, and these determinations are posted to the single display device as error messages.
4. (Original) The automated data storage library of claim 1, wherein the data storage drives are installed in the frame in a two-for-one drive solution, with individual drive connection cables extending between each data storage drive and the switching unit.
5. (Original) The automated data storage library of claim 1, further comprising
a plurality of frames, each of the frames having a plurality of the data storage devices,
and
a single display device associated with and mounted to each of the frames.
6. (Original) The automated data storage library of claim 1, wherein the single display device comprises a liquid crystal display unit.
7. (Original) A method of operating an automated data storage library, comprising:
providing a frame having a plurality of data storage drives and a single control station;
controlling all of the data storage drives in the frame with the single control station;
performing touch-screen, operational control of all functions of all of the data storage
drives with a single display device to centralize management of all of the data
storage drives; and
manipulating selection of the data storage drives via microcode and a switching unit that
is connected to the single display device.
8. (Currently Amended) The method of claim 7, wherein the performing step comprises at least one of:
loading and unloading data tape cartridges,
resetting the data storage drives,
setting error code match dumps,
looking at data storage drive history for loads and power-on time,
setting library control features,
making microcode enhancements,

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retrieving microcode dumps,
accessing all vital product data, and
monitoring potential problems with the data storage drives.

9. (Original) The method of claim 7, further comprising
determining potential operational problems of the data storage drives prior to actual
failure, and
posting these determinations to the single display device as error messages.
10. (Original) The method of claim 7, further comprising installing the data storage drives in
the frame in a two-for-one drive solution, with individual drive connection cables extending
between each data storage drive and the switching unit.
11. (Original) The method of claim 7, further comprising providing a plurality of frames with
each of the frames having a plurality of data storage devices, and a single display device
associated with each of the frames.
12. (New) An automated data storage library, comprising:
a plurality of storage modules, said plurality of storage modules comprising
a storage frame module,
a storage shelf module to removably store data storage media, and
an accessor module;
a plurality of storage drives disposed within said storage frame module, wherein said
accessor module comprises a robotic picker to transport said data storage media
between said storage shelf module and said plurality of storage drives;
a control station, disposed within said storage frame module and coupled to each of said
plurality of storage drives, to control operation of said plurality of storage drives
from a single position, said control station comprising
a display device configured to display a graphical representation of said plurality
of drives and to receive a touch screen selection input utilizing said
graphical representation, wherein said touch screen selection input
specifies a selected storage drive of said plurality of storage drives, and

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a switching element configured to communicatively couple said display device to said selected storage drive in response to a receipt of said touch screen selection input.

13. (New) The automated data storage library of claim 12, wherein said display device is further configured to display status data associated with said selected storage drive in response to a receipt of said touch screen selection input.

14. (New) The automated data storage library of claim 12, wherein at least one of said plurality of storage drives is configured to detect a potential operational problem prior to a failure of said at least one of said plurality of storage drives, and said display device is further configured to display an error message in response to a detection of said potential problem.

15. (New) The automated data storage library of claim 12, wherein said display device is further configured to receive a control input, and said control station is further configured to cause said selected storage drive to perform a requested operation in response to a receipt of said control input.

16. (New) The automated data storage library of claim 12, further comprising a controller communicatively coupled between said storage frame module and a host data processing system.